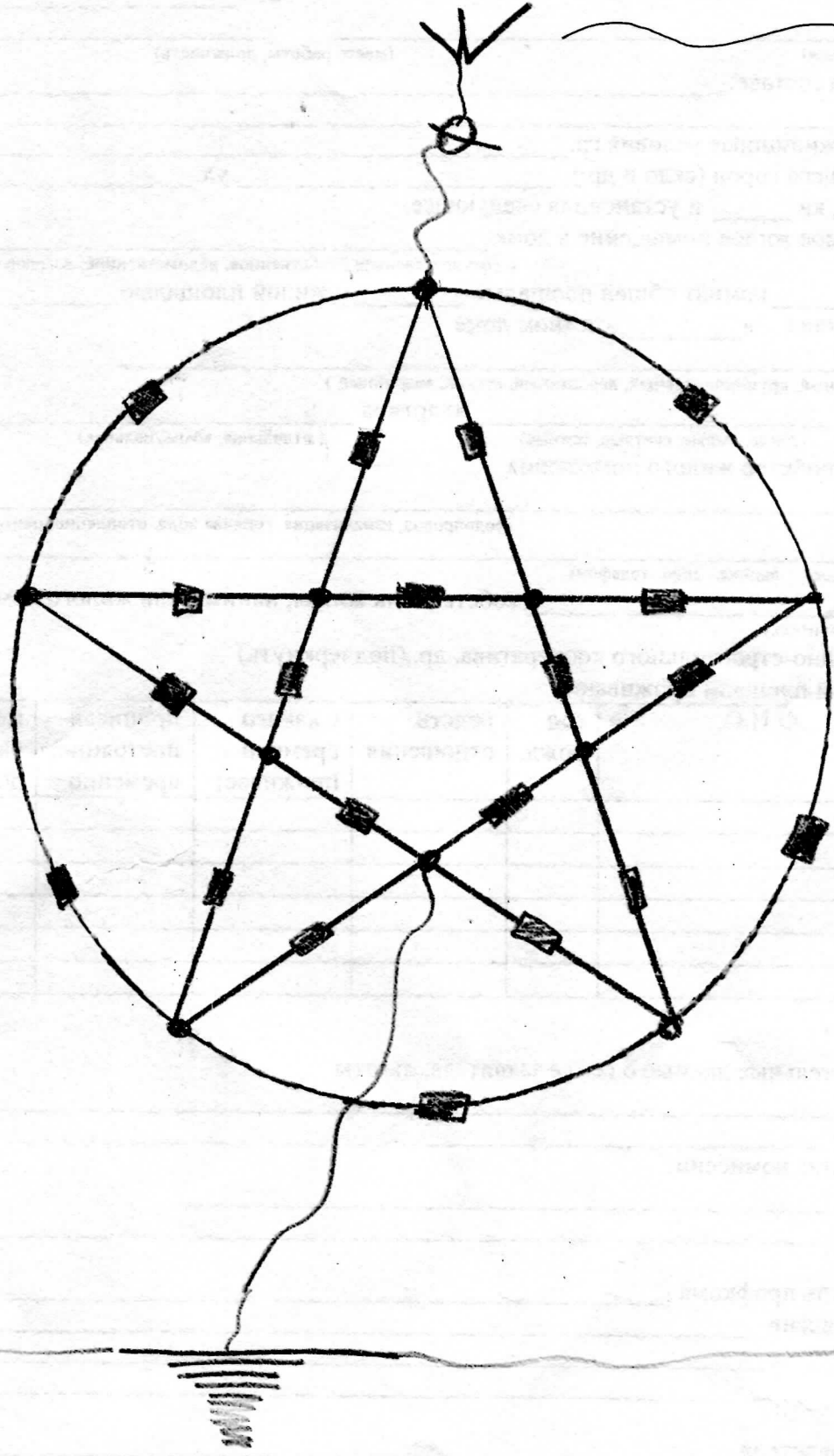
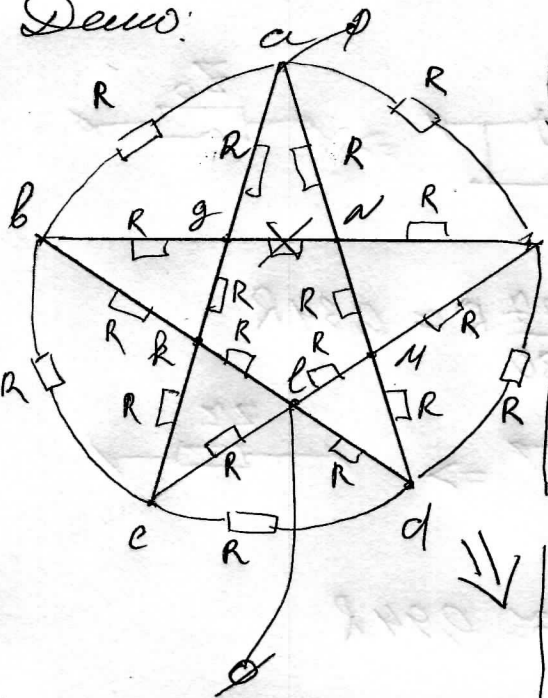


Анализ  $\sqrt{g}$   
век. AC. Репрезентация



Дано:

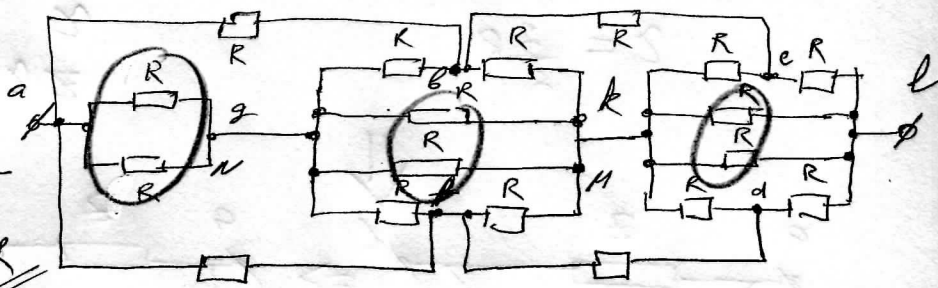


Решение

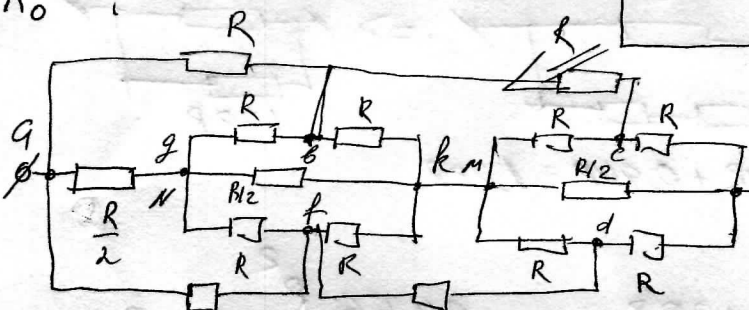
$$\begin{aligned} \psi_b &= \psi_f \\ \psi_c &= \psi_d \\ \psi_g &= \psi_n \\ \psi_k &= \psi_m \end{aligned}$$

точки с одинаковыми потенциалом.

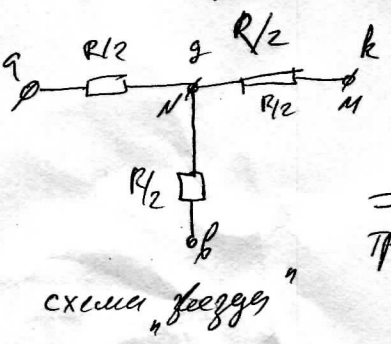
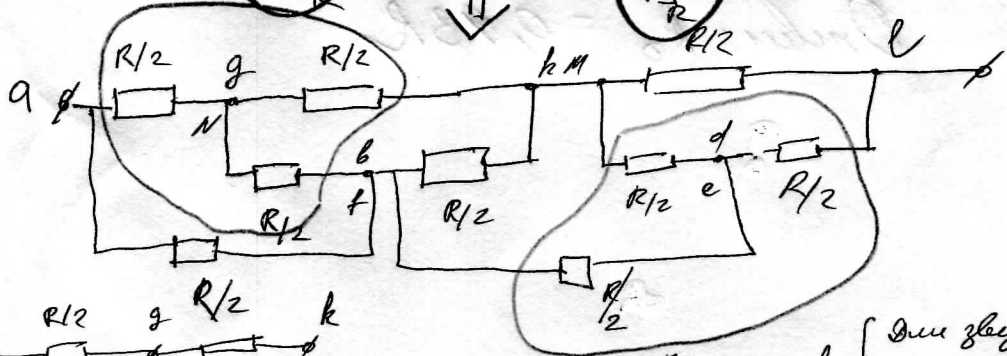
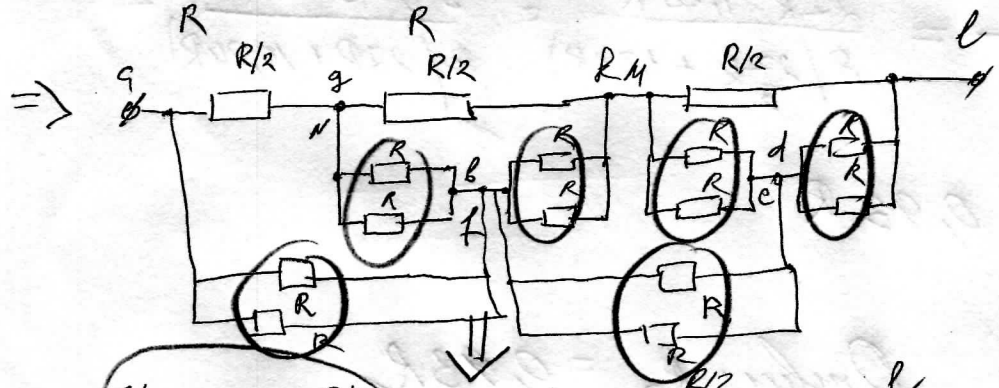
Решение -  $gn$  - ток и мнем ~~к~~, потому что его (уберем) - не учитываем в схеме



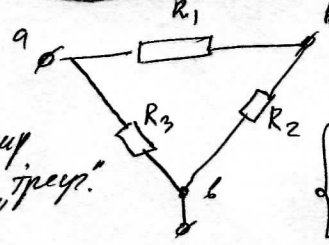
$R_0 = ?$



$\Rightarrow$  тк  $(\psi_b = \psi_f \text{ и } \psi_c = \psi_d) \Rightarrow$



$\Rightarrow$  преобразуем в звезду "трех"



Два звена:  $R_{ab} = \frac{R}{2} + \frac{R}{2} = R$  (1)

Два  $\Delta$ :  $R_{ab} = \frac{R_3(R_1+R_2)}{R_1+R_2+R_3}$

Два  $\lambda$ :  $R_{ak} = \frac{R}{2} + \frac{R}{2} = R$  (2)

Два  $\Delta$ :  $R_{ak} = \frac{R_1(R_2+R_3)}{R_1+R_2+R_3}$

Два  $\lambda$ :  $R_{kb} = \frac{R}{2} + \frac{R}{2} = R$  (3)

Два  $\Delta$ :  $R_{kb} = \frac{R_2(R_1+R_3)}{R_1+R_2+R_3}$

$$U_3(1) \Rightarrow R = \frac{R_3(R_1 + R_2)}{R_1 + R_2 + R_3}$$

$$(142) \Rightarrow R_3(R_1 + R_2) = R_1(R_2 + R_3)$$

$$U_3(2) \Rightarrow R = \frac{R_1(R_2 + R_3)}{R_1 + R_2 + R_3} \Rightarrow$$

$$\underline{R_1 = R_3}$$

$$U_3(3) \Rightarrow R = \frac{R_2(R_1 + R_3)}{R_1 + R_2 + R_3}$$

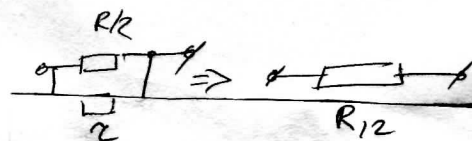
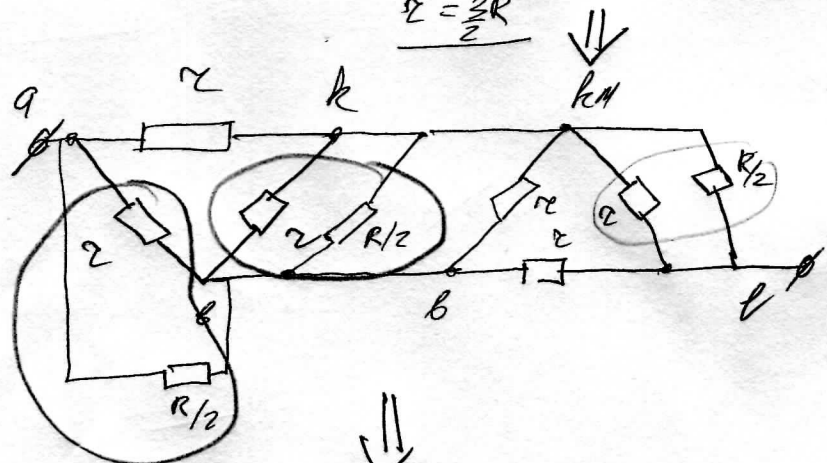
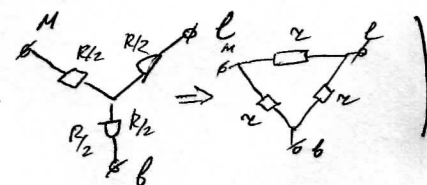
$$(243) \Rightarrow R_1(R_2 + R_3) = R_2(R_1 + R_3)$$

$$\underline{R_1 = R_2}$$

т.е.  $R_1 = R_2 = R_3 = R$

$$R = \frac{R(R+R)}{R+R+R} = \frac{2R \cdot R}{3R} = \frac{2}{3}R$$

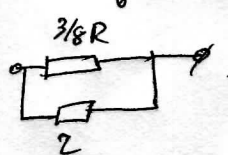
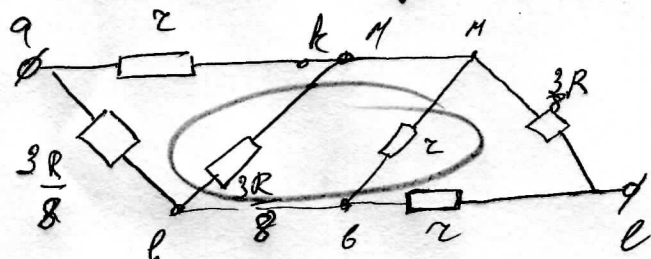
(Две звезды, анаморфно.)



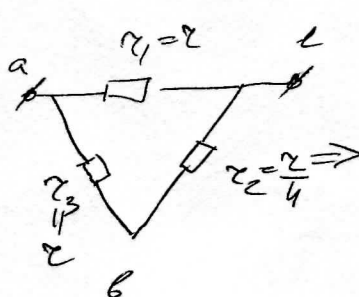
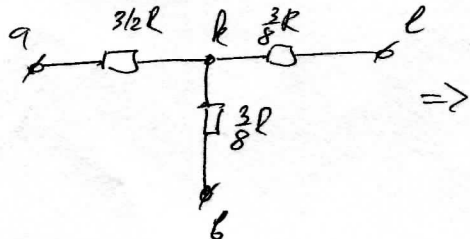
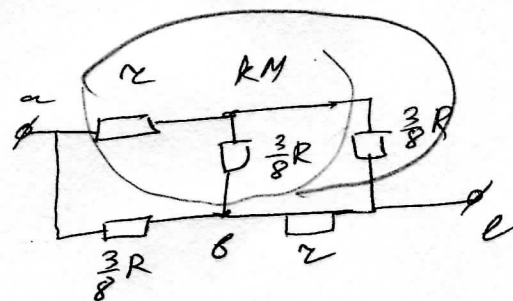
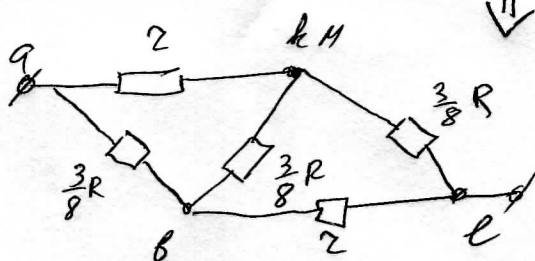
$$R = \frac{3R}{2}$$

$$R_{12} = \frac{R \cdot \frac{R}{2}}{R + \frac{R}{2}} = \frac{\frac{3R}{2} \cdot \frac{R}{2}}{\frac{3R + R}{2}} = \frac{3R^2}{4R} = \frac{3R}{4}$$

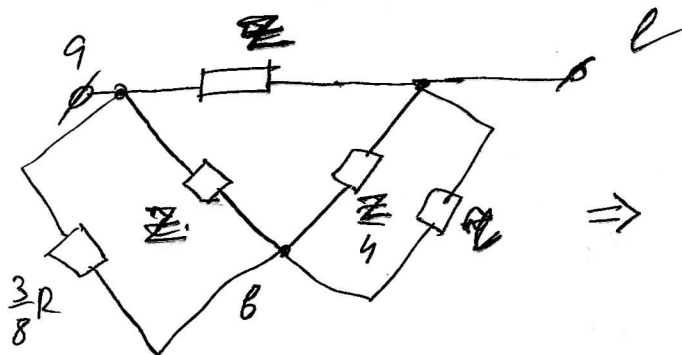
$$= \frac{3R}{8}$$



$$R_{34} = \frac{3R \cdot R}{8(\frac{3R}{8} + R)} = \frac{3R \cdot 3R}{8 \cdot 2(\frac{3R}{8} + \frac{3R}{8})} = \frac{9R^2}{16(\frac{3R + 12R}{8})} = \frac{9R^2}{2 \cdot 16 \cdot 15R} = \frac{9R}{30} = \frac{3R}{10}$$

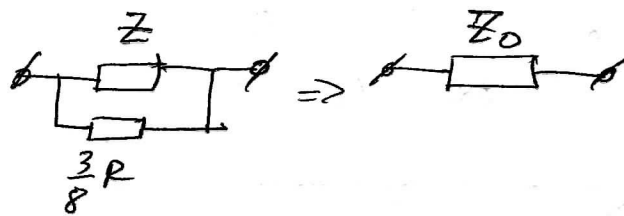


по формуле  
 $R_1 = R_3 = R$   
 $R_2 = \frac{R}{4}$   
 $R = \frac{24R}{8}$   
 $R = 3,375R$

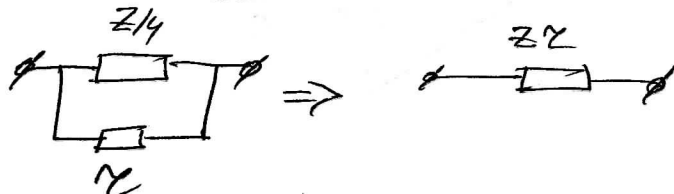


$$20\% Z = \frac{27R}{8}$$

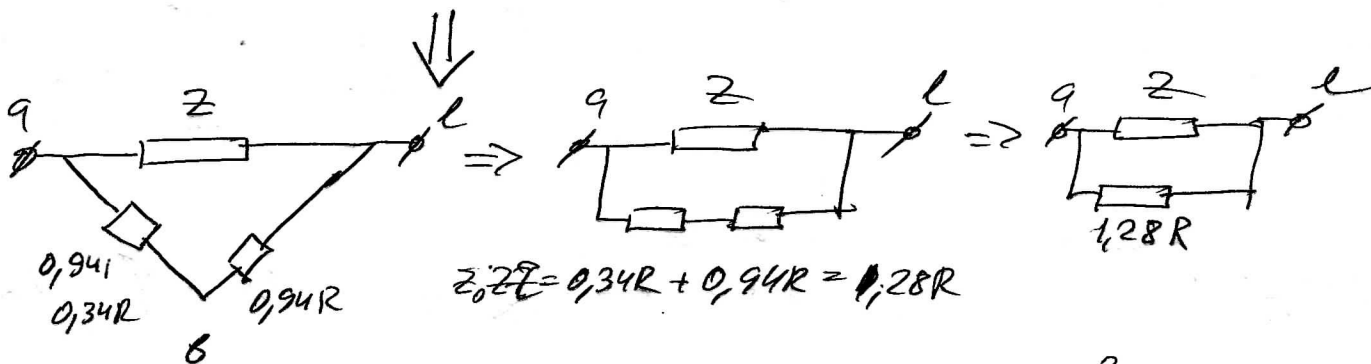
$$Z = \frac{3R}{2}$$



$$Z_0 = \frac{27R}{80} \approx 0,34R$$



$$Z \cdot Z \approx 0,94R$$



$$Z_0 \cdot Z = 0,34R + 0,94R = 1,28R$$

$$R_0 = \frac{Z \cdot 1,28R}{Z + 1,28R} = \frac{27R \cdot 1,28R}{8 \left( \frac{27R}{8} + 1,28R \right)} = \frac{34,56 R^2}{8 \left( 27R + 10,24R \right)}$$

$$= \frac{34,56 R^2}{37,24 R} = 0,93 \cdot R$$

Ombes:  $R_0 = 0,93R$